



Summary specifications

GPIB Interface All major functions are remotely programmable.

Frequency

Measurement range 100 Hz to 400 MHz in 1 Hz steps.

Frequency span

Full Span 0 to 400 MHz.

/Div 10 Hz/div to 20 MHz/div in a 1,2,5, sequence and 40 MHz/div.

Log 1 to 7 decade logarithmic display.

Zero Span Time domain display of any signal at the Reference Frequency.

FM Demod Displays the frequency deviation of a signal against a time axis. Range is 18 Hz to 180 kHz full scale.

Meter A "bar chart" display indicates the instantaneous signal level at the Reference Frequency.

Amplitude

Measurement range -150 dBm to +30 dBm; Overload protected to 50 W.

Displayed range

dB/Division 100 dB at 10 dB/div, to 5 dB at 0.5 dB/div in a 1,2,5, sequence.

Volts/Div Gives a linear amplitude scale.

Log Volts Two and a half decades of logarithmic display.

Accuracy ± 1 dB at any frequency, IF gain setting, RF attenuator setting and resolution bandwidth.

Frequency response ± 0.3 dB. This error is included in the accuracy specification above.

Input 50 Ω DC coupled. Reflection coefficient less than 0.10 for input attenuator settings ≥ 10 dB.

Resolution

Resolution bandwidths Twelve filters with 3 dB bandwidths of 3 Hz to 1 MHz in a 1,3,10, sequence.

Shape factor 60 dB/3 dB selectivity $< 11:1$ except for 1 MHz filter.

Dynamic Range

Harmonic 80 dBc with -40 dBm at input mixer.

Non-Harmonic 80 dBc with -30 dBm at input mixer.

Display 100 dB.

Gain compression Never visible in AUTO mode for a single sinusoid test signal.

Intermodulation performance permits measurement to better than 95 dBc.

Residual responses Less than -120 dBm referred to input mixer level.

Equivalent input noise sensitivity -140 dBm using 3 Hz filter.

Sweep time 10 ms/div to 20 s/div in a 1,2,5, sequence.

Video bandwidths 1 Hz to 50 kHz.

Video averaging Keys select either or both A and B traces 2 to 128 sweeps.

CAL (Calibrator) Automatic calibration sequence initiated by pressing front panel key.

Store/Recall Up to 9 instrument front panel settings can be stored and recalled in non-volatile memory.

Tracking generator

Frequency range 100 Hz to 400 MHz.

Accuracy ± 0.5 dB at 10 MHz.

Frequency response ± 0.25 dB.

Output 50 Ω , reflection coefficient less than 0.10.

See Data Sheet for full specifications.